

DH-IPC-HDBW3441F-AS-S2

4MP IR Fixed-focal Dome WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- 4 MP 1/3" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 30 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265. flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 4.0, AI SSA.



Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

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Technical Specification

Camera	Camera					
Image Senso	r	1/3" CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning Sys	tem	Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		30 m (98.43 ft)				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		2 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt:-20°–70°; Rotation: 0°–355°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.1 mm; 2.8 mm; 3.6 mm; 6 mm				
Max. Aperture		2.1 mm: F2.0; 2.8 mm; 3.6 mm; 6 mm: F1.4				
Field of View		2.1 mm: Horizontal: 137°; vertical: 70°; diagonal: 142° 2.8 mm: Horizontal: 102°; vertical: 54°; diagonal: 121° 3.6 mm: Horizontal: 84°; vertical: 42°; diagonal: 101° 6 mm: Horizontal: 52°; vertical: 28° ; diagonal: 61°				
Iris Control		Fixed				
Close Focus Distance		2.1 mm: 0.5 m (1.64 ft) 2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.2 m (10.50 ft)				
	Lens	Detect	Observe	Recognize	Identify	
	2.1 mm	52.0 m (170.60 ft)	20.8 m (68.24 ft)	10.4 m (34.12 ft)	5.2 m (17.06 ft)	
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.66 ft)	6.4 m (21.00 ft)	
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
	6 mm	124.0 m (406.82 ft)	49.6 m (162.73 ft)	24.8 m (81.36 ft)	12.4 m (40.68 ft)	
Intelligence						
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)				
AI SSA		Yes				

With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event

videos

Quick Pick

Smart Search

Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)		
Smart Codec	Smart H.265+ Smart H.264+		
AI Coding	AI H.265 AI H.264		
Video Frame Rate	Main stream: 2688 × 1520 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity		
Stream Capability	3 streams		
Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048×1536); 3M (2304×1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA (640 × 480)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Defog	Yes		
AFSA	Yes		
Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 \times 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception		
Network			

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SDK and APIyesNetwork ProtocolIK-4; IFV6; ITTP; TCP; UDP; ARP; RTS, RTCP; RTMP; Multicast; ICMP; IGMP, NTS; SAMBA; PPPoE; SNMPcyber SecurityVideo encrytton; Firmware encrytton; Configuration encrytton; Tusted upgradefueroperabilityONUF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; centitotion ysiogs; HTTP; SS (DS), LT, Tusted uboot; Tusted execution; Tusted upgradefueroperabilityONUF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; ceneticfueroperabilityONUF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; ceneticfueroperabilityCI (Total bandwidth: 64 M)forageFTP; STP; Dicro SD card (support max. 256 G); NASfueroperabilityDist, AndroidfueroperabilityDist, AndroidfueroperabilityDist, AndroidfueroperabilityDist, NatorialfueroperabilityDist, NatorialfueroperabilityDist, NatorialfueroperabilityCirc; C, 47 CR PCC Part 15, Subpart B; UCU: UL5268-115; Subpart B; UCU: UL5268-115; Subpart B; UCU: UL5268-12; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-13; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ; A7 CR PCC Part 15, Subpart B; UCU: UL5268-14; Circ;	Network Port	RJ-45 (10/100 Base-T)				
Network ProtocolSMP: FTP; STP; DCP; DS; DDNS; DDNS; OS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMPCyber SecurityVideo encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockut; Security Dogs; IPMAC filtering; Generation and importing of X S09 certification; Sigle; HTPS; S02.1x, Trusted boot; Trusted usecution; Trusted upgradeInteroperabilityColorab bandwidth: 64 M)User/Host20 (Total bandwidth: 64 M)StorageColorab SD,	SDK and API	Yes				
Cyber Securityencryption: Digest: WSSE; Account lockout; Security logs; invested upgradeInteroperabilitycertification: sysiog; HTTPs; So2.1x; Trusted bod; Trusted vecution; Trusted upgradeInteroperability20 (Total bandwidth: 64 M)User/Host20 (Total bandwidth: 64 M)StorageFIP; SFTP; Micro SD card (support max. 256 G); NASBrowserCis; AndroidManagement SoftwareSmart PSS; DSS; DMSSMobile ClientIoS; AndroidCertificationCieta CertificationFerificationsCieta CertificationFortCieta CertificationAudio InputIchannel (RCA port)Audio InputIchannel (RCA port)Audio OutputIchannel (RCA port)Audio OutputIchannel (RCA port)Audio OutputIchannel in: S mA 3-5 VDCAudio NuputIchonnel (SC Saft)ForwerVicy (Vic Pic) (27 (VFR))Power ConsumptionSais: 3.8 W (12 VDC); 4.6 W (PDE) (27 (VFR))Power ConsumptionSais: 3.8 W (12 VDC); 4.6 W (PDE) (27 (VFR))Foruer SupplyIchonel (C-40 °F to 140 °F) /Less than 95 KRI (VIC Pre) (27 (CF) (C-40 °F to 140 °F))Power ConsumptionSais: 3.8 W (12 VDC); 4.6 W (PDE) (27 (VFR))Foruer SupplyIchonel (C-40 °F to 140 °F) /Less than 95 KRI (VIC Pre) (27 (CF) (C-40 °F to 140 °F))Foruer SupplyIchonel (C-40 °F to 140 °F))Foruer Supply </td <td>Network Protocol</td> <td>SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;</td>	Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;				
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YerPrescriptionStorageFiP; SFTP; Micro SD card (support max. 256 G); NASBrowserIs: IE11 chrome FirefoxManagement SoftwareSmart PSS; DSS; DMSSMobile ClientIo; AndroidCertificationIS: ELVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; CE-CAYCE FCC Part 15, Subpart B; U/CUL: UL62368-18 CAN/CSA C22.2 No. 62368-1141PortIchannel (RCA port)Audio InputIchannel (RCA port)Audio OutputIchannel in: 5 mA 3-5 VDCAudin OutputIchannel out: 300 mA 12 VDCPowerIstor/Poel (SUC/Poel (SUC); A: 6 W) (Poel) 	Interoperability					
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Certifications	Mobile Client	IOS; Android				
CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; EC: 47 CFR FCC Part 15, Subpart B; U/CUI: ULG2368-1 & CAN/CSA C22.2 No. 62368-1-14FortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Audio Output1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower1 channel out: 300 mA 12 VDCPower1 VDC/PoE (802.3af)Power Supply1 2 VDC/PoE (802.3af)Power ConsumptionBasic: 3.8 W (12 VDC); 4.6 W (PoE) Su, WDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 2.8 W (VDR + IR intensity + Intelligence): 5.9 W (12 VDC); 	Certification					
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Power ConsumptionMax. (WDR + IR intensity + Intelligence): 5.9 W (12 VDC); 7.2 W (PoE)EnvironmentOperating Temperature-40 °C to +60 °C (-40 °F to 140 °F) /Less than 95% RHStorage Temperature-40 °C to +60 °C (-40 °F to 140 °F)ProtectionIP67, IK10StructureCasingProduct Dimensions64.8 mm × Φ111.0 mm (2.55" × Φ4.37")Net Weight40 g (0.93 lb)	Power Supply	12 VDC/PoE (802.3af)				
Operating Temperature -40 °C to +60 °C (-40 °F to 140 °F)/Less than 95% RH Storage Temperature -40 °C to +60 °C (-40 °F to 140 °F) Protection IP67, IK10 Structure Metal Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Power Consumption	Max. (WDR + IR intensity + Intelligence): 5.9 W (12 VDC);				
Storage Temperature -40 °C to +60 °C (-40 °F to 140 °F) Protection IP67, IK10 Structure Kala Casing Metal Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Environment					
Protection IP67, IK10 Structure Metal Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Operating Temperature	–40 °C to +60 °C (–40 °F to 140 °F) /Less than 95% RH				
Structure Casing Metal Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)				
Casing Metal Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Protection	IP67, IK10				
Product Dimensions 64.8 mm × Φ111.0 mm (2.55" × Φ4.37") Net Weight 423 g (0.93 lb)	Structure					
Net Weight 423 g (0.93 lb)	Casing	Metal				
	Product Dimensions	64.8 mm × Φ111.0 mm (2.55" × Φ4.37")				
Gross Weight 530 g (1.17 lb)	Net Weight	423 g (0.93 lb)				
	Gross Weight	530 g (1.17 lb)				

Ordering Information					
Туре	Model	Description			
4 MP Camera	DH-IPC-HDBW3441F-AS-S2	4MP IR Fixed-focal Dome WizSense Network Camera			
	PFA136	Junction Box			
	PFA109	Ceiling Mount			
	PFB205W-E	Wall Mount			
Accessories	PFM321D	12 VDC 1 A Power Adapter			
(optional)	PFB220C	Ceiling Mount Bracket			
	PFA152-E	Wall mount			
	PFM900-E	Integrated Mount Tester			
	TF-P100	TLC SD Card			

Accessories





Junction

Box



PFA109

Ceiling

Mount



PFB205W-E Wall Mount





PFM900-E

Integrated

Power Adapter

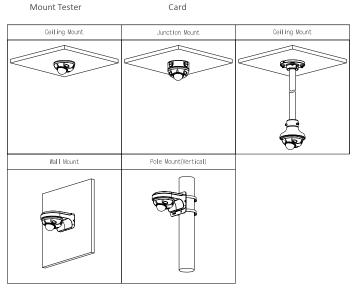
PFB220C Bracket

alhua 256_{GB} ⊎ 42 mss V30 x re

Ceiling Mount



TF-P100 TLC SD Card



PFA152-E Wall mount

Dimensions (mm[inch])

